Application No. 09/697,186 Attorney Docket No. 04853.0048-00

exter L. Kerr

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

- 1. (canceled)
- (previously presented) A mutant kanamycin nucleotidyltransferase with improved thermostability as compared to SEQ ID NO:1, comprising the amino acid sequence indicated by SEQ ID NO:2.
- 3. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:3.
 - 4-9. (canceled)
- 10. (previously presented) An isolated mutant kanamycin nucleotidyltransferase comprising the sequence of SEQ ID NO:1 modified by at least one point mutation selected from Met57Leu, Ala62Val, Ser94Pro, Ser203Pro, Asp206Val, His207Gln, Ser220Pro, Ile234Val, and Thr238Ala, and having improved thermostability as compared to SEQ ID NO:1, wherein the sequence of SEQ ID NO:1 is not modified by any other mutations.
- 11. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:12.

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- 12. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:13.
- 13. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:14.
- 14. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:15.
- 15. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:16.
- 16. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:17.
- 17. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:18.
- 18. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:19.
- 19. (previously presented) The mutant kanamycin nucleotidyltransferase according to claim 1, comprising the amino acid sequence indicated by SEQ ID NO:20.
 - 20. (canceled)

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